## Scenario Worksheet

## Practice and Scenario Description:

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Information Type	Data			
Region	Appalachian			
State	North Carolina			
Discipline Group	Agricultural Engineering			
Practice Code/Name	362 - Diversion			
Scenario ID	1			
Scenario Name	Diversion			
	An earthon channel constructed acres			

An earthen channel constructed across long slopes with supporting ridge on lower side, to divert runoff away from farmsteads, agricultural waste systems, gullies, critical erosion areas, construction areas or other sensitive areas. Outlet may be waterway, underground outlet. or other suitable outlet. Typical diversion is, 1000 feet long installed on a field slope of 5 percent and requires 1 CY excavation per LF. Channel my be level or gradient and ridge may be vegetated or farmed. The quantity of excavation and fill is balanced.

Excessive sedimentation and soil erosion as a result of gully, rill or sheet erosion which exceeds "T" from farm fields and other locations. Also, roof runoff or surface

Excessive sedimentation and soil erosion as a result of gully, rill or sheet erosion which exceeds "T" from farm fields and other locations. Also, roof runoff or surface runoff that becomes contaminated with agricultral wastes that significantly contributes to the amount of runoff that has to be stored or treated.

Diversion is 1000 feet long installed using a dozer. Field system meets "T" or "clean" storm water runoff is diverted away from an agricultrual waste management system to minimize the volume of runoff that is contaminated by agricultral waste. Associated practices are Critical Area Planting (342), Grassed Waterway (412),

Modernous Outlet (620), Mulching (484), and Subsurface Drainage (606).

Scenario Feature Measure

Length of Diversion

Scenario Unit Linear Foot
Scenario Typical Size 1000

## Cost Summary:

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Şi	0.00
.00 \$	1.71
0 \$	0.11
\$1	0.09
\$	0.00
\$1	0.00
.80 \$	1.91
	.00

## Cost Details:

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Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			Bulk excavation and side casting of common				
		Excavation, Common Earth, side	earth with hydraulic excavator with less than 1				
Equipment/Installation	48	cast, small equipment	CY capacity. Includes equipment and labor.	Cubic yard	\$1.71	1000	\$1,710.00
Labor	231		Labor performed using basic tools such as power tool, shovels, and other tools that do not require extensive training. Ex. pipe layer, herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.67	2	\$37.34
Labor	234		Labor involving supervision or management activities. Includes crew supervisors, foremen and farm/ranch managers time required for adopting new technology, etc.		\$35.43	2	\$70.86
Mobilization	1139		Equipment with 70-150 HP or typical weights between 14,000 and 30,000 pounds.	Each	\$92.60	1	\$92.60

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